Page 1 of 11 ATTY. DOCKET NO. APPLICATION NO. 1533.1030002/SRL/SEZ 09/722,441 FORM PTO-1449 JUN 2 2 2001 APPLICANT Hanke et al. TION DISCLOSURE STATEMENT TRADE FILING DATE GROUP November 28, 2000 1645 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS FILING DATE AA1 2,979,439 04/11/1961 Kinoshita et al. 195 47 11/04/1958 KK AB1 3,565,951 02/23/1971 Ishida et al. 260 527 03/20/1967 KKAC1 3,687,810 08/29/1972 Kurihara et al. 195 29 06/08/1970 AD1 3,700,557 10/24/1972 Nakayama et al. 195 29 08/06/1968 AE1 3,707,441 12/26/1972 Shiio et al. 195 29 03/09/1970 KK AF1 3,708,395 01/02/1973 Nakayama et al. 195 29 07/13/1970 KKAG1 3,825,472 07/23/1974 Kubota et al. 195 29 10/02/1973 KKAH1 4,169,763 10/02/1979 Nakayama et al. 435 115 07/11/1977 AI1 4,560,654 12/24/1985 Miwa et al. 435 115 05/07/1981 AJ1 4,861,722 08/29/1989 Sano et al. 435 252.32 06/01/1987 AK1 4,954,441 09/04/1990 435 Katsumata et al. 115 05/25/1989 FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes AL1 EP 0 811 682 A2 12/10/1997 Europe No Yes ŘΚ AM1 EP 0 854 189 A2 07/22/1998 Europe No Yes AN1 WO 00/63388 10/26/2000 WIPO X No KK Yes AO1 WO 96/34961 11/07/1996 WIPO No Yes KK AP1 EP 0 754 756 A1 01/22/1997 Europe No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Archer, J. and Sinskey, A.J., "The DNA sequence and minimal replicon of the Corynebacterium KK AR glutamicum plasmid pSR1: evidence of a common ancestry with plasmids from  $\mathcal{C}.$  diphtheriae, J.1 Gen. Microbiol. 139:1753-1759, Cambridge University Press (1993). Ben-Samoun, K. et al., "Positively regulated expression of the Escherichia coli araBAD promoter VK AS 1 in Corynebacterium glutamicum," FEMS Microbiol. Lett. 174:125-130, Federation of European-Microbiological Societies and Elsevier Science B.V. (May 1999). KK Bowie, J.U.  $et\ al$  , "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," Science 247:1306-1310, American Association for the Advancement of Science ΑТ 1 (1990). **EXAMINER** DATE CONSIDERED 13/02 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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KK	AA2	4,980,285	12/25/1990	Sano et al.	435		108	09/25/1989			
_ KK	AB2	5,236,831	08/17/1993	Katsumata et al.	435		106	02/02/1990			
LKK	AC2	5,243,039	09/07/1993	Schendel et al.	536		23.2	04/12/1991			
KK	AD2	5,426,052	06/20/1995	Flickinger et al.	536		23.2	05/10/1991			
KK	AE2	5,631,150	05/20/1997	Harkki et al.	435		105	01/03/1995			
KK	AF2	5,650,304	07/22/1997	Ishii <i>et al</i> .	435		115	02/03/1995			
KK	AG2	5,661,012	08/26/1997	Sano et al.	435		115	07/01/1994			
KK	AH2	5,688,671	11/18/1997	Sugimoto et al.	435		115	10/27/1995			
KK	AI2	5,693,781	12/02/1997	Zupancic et al.	536		24.1	06/15/1993			
KK	AJ2	5,700,661	12/23/1997	Katsumata et al.	435		69.1	06/03/1996			
KK	AK2	5,707,828	01/13/1998	Sreekrishna et al.	435		69.1	05/03/1995			
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KK	AS <u>2</u>	Copeland, R Structure, M.	Copeland, R.A., "Cooperativity in Enzyme Catalysis," in Enzymes. A Practical Introduction to Structure, Mechanism, and Data Analysis, pages 279-296, Wiley-VCH, New York (1996).								
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KK	AA4	6,09	0,597	07/18/2000	Hirano et al.	435		115	05/07/1997	
KK	AB4	5,60	5,793	02/25/1997	Stemmer, W.P.C.	435		6	02/17/1994	
KK	AC4		3,790	07/01/1997	Morinaga et al.	435		252.3	02/16/1995	
KK	AD4		01,577	01/07/1997	Tsuchiya et al.	435		6	05/20/1994	
KK	AE4		7,727	01/28/1997	Kohama et al.	435		252.32		
KK	AF4		0,471	12/01/1987	Katsumata et al.				05/18/1994	
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KK	AG4		7,009	07/12/1988	Sano et al.	435		106	08/28/1984	
	AH4		8,762	10/18/1988	Miwa et al.	435		320	10/18/1982	
KK	AI4		2,738	04/18/1989	Miwa et al.	435		252.3	12/21/1987	
KK	AJ4	5,42	6,050	06/20/1995	Morinaga <i>et al</i> .	435		252.32	12/16/1993	
KK	AK4	4,34	6,170	08/24/1982	Sano et al.	435		115	07/23/1980	
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Kħ	AS	<u>4</u>	Liebl, W. et al., "Transfer of Brevibacterium divaricatum DSM 20297, 'Brevibacterium flavum' DSM 20411, 'Brevibacterium lactofermentum' DSM 20412 and DSM 1412, and Corynebacterium lilium DSM 20137 to Corynebacterium glutamicum and Their Distinction by rRNA Gene Restriction Patterns," Int. J. Syst. Bacteriol. 41:255-260, International Union of Microbiological Societies (1991).							
KK EXAMINER	AT	4	Lonsdale, D.I	M. et al., "pFc1 ep. 13:343-345, ₩	to pFC7: A Novel Family of Con <del>(Luwer Academic Publishers</del> (199	95).	rial Clo			
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KK KK	AA5		89,160	12/18/1984	Katsumata et al.	435		253	08/24/1982	
	AB5		00,640	02/19/1985	Katsumata et al.	435		253	04/13/1982	
KK .	AC5		14,502	04/30/1985	Miwa et al.	435		253	06/10/1982	
<u>KK</u>	AD5		59,308	12/17/1985	Nutter et al.	435	_	317	01/27/1983	
KK KK	AE5		17,267	10/14/1986	Katsumata et al.	435	-	91	01/25/1984	
I/V	AF5		29,221	07/27/1999	Kimura et al.	536		23.1	08/22/1996	
K.F.	AG5		34,231	11/10/1998	Stoddard et al.	435		42	10/24/1996	
KF VV	AH5		59,075	05/25/1976	Inuzuka et al.	195		29	07/15/1975	
KK.	A15		19,694	07/06/1999	Sugimoto et al.	435		252.33	11/10/1997	
KK	AJ5		76,983	03/02/1999	Sugimoto et al.	435		106	04/29/1996	
<u> </u>	AK5	5,80	04,414	09/08/1998	Moriya <i>et al.</i>	435		69.1	07/01/1996	
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KĽ	AR	<u>5</u>	Malumbres, M	. and Martín, J.	F., "Molecular control mechani roducing corynebacteria: Redir n of European Microbiological	sms of	carbon	flow." FEMS	Microbiol.	
KK	AS	<u>5</u>	Corynebacter	Marcel, T. et al., "Nucleotide sequence and organization of the upstream region of the Corynebacterium glutamicum lysA gene," Mol. Microbiology 4:1819-1830, Blackwell Scientific Publications (1990).						
KK	АТ	<u>5</u>	glutamicum <b>M</b>	et al., "Microb utants," in <i>Nutr</i> ork, NY, pp. 649	ial Production of Essential Am itional Improvement of Food an -661 (1978).	ino Acid d Feed i	ds with Protein	Corynebact s, Friedman	<i>erium</i> , ed., Plenum	
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_ <u> </u>	AA6	5,6	40,803	06/24/1997	Kloepper et al.	47		57.6	06/30/1994	
KK,	AB6	5,6	33,154	05/27/1997	Schaefer et al.	435		172.3	11/04/1994	
KK	AC6	5,5	56,776	09/17/1996	Tsuchiya et al.	435		106	09/23/1994	
KK	AD6	5,5	47,864	08/20/1996	Kawasaki et al.	435		170	09/08/1994	
<u>KK</u>	AE6	5,49	98,532	03/12/1996	Katsumata et al.	435		106	12/28/1990	
KK	AF6	5,38	30,657	01/10/1995	Schaefer et al.	435		172.3	03/18/1993	
L KK	AG6	5,15	58,891	10/27/1992	Takeda et al.	435		320.1	03/13/1990	
KK	AH6	5,03	34,319	07/23/1991	Azuma et al.	435		114	04/07/1989	
KK	A16	5,03	34,318	07/23/1991	Miwa <i>et al</i> .	435		108	03/22/1990	
KK	AJ6	4,60	01,983	07/22/1986	Nakamori et al.	435		115	06/15/1983	
KK	AK6	6,20	00,785 B1	03/13/2001	Kreutzer et al.	435		115	07/14/1999	
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<b>ኢ</b> k	AR	<u>6</u>	Oguiza, J.A. the <i>lysA</i> Gen	et al., "A Gene ne in <i>Brevibacteri</i>	Encoding Arginyl-tRNA Syntheta ium lactofermentum: Regulation 17356-7362, <del>American Society fo</del>	ase Is of argS	-1ysA C	luster Expr	tream Region of ession by	
KK	AS	<u>6</u>	Pátek, M. <i>et</i> search for a	Pátek, M. et al., "Promoters from <i>Corynebacterium glutamicum</i> : cloning, molecular analysis and search for a consensus motif," <i>Microbiology 142</i> :1297-1309, <del>20M</del> (1996).						
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KK	AS	Record, M.T. et al., "Escherichia coli RNA Polymerase (Eo <sup>70</sup> ), Promoters, and the Kinetics of the Steps of Transcription Initiation," in Escherichia coli and Salmonella: Cellular and Molecular Biology, American Society for Microbiology Press, pp. 792-821 (1996).							
KK	AT	Reinscheid, D.J. et al., "Cloning, sequence analysis, expression and inactivation of the Corynebacterium glutamicum pta-ack operon encoding phophotransacetylase and acetate kinase,"  Microbiology 145:503-513, Society for General-Microbiology (February 1999).							
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KĽ	AR	8	Sahm, H. et	al., "Construc	tion of L-lysine-, L-th cum," Ann. N.Y. Acad. So	reonine-, or L-isole	eucine-overpro New York Academ	ducing strains my of Sciences	
KK	Schäfer, A. et al., "Small mobilizable multi-purpose cloning vectors derived from the Escherichia coli plasmids pK18 and pK19: selection of defined deletions in the chromosome of Corynebacterium glutamicum," Gene 145:69-73, Elsevier Science B.V. (1994).								
KK	Van Walsem, H.J. and Thompson, M.C., "Simulated moving bed in the production of lysine," J. Biotechnol. 59:127-132, Elsovier Science B.V. (1997).								
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